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* * * * * Welcome to STN International * * * * *

NEWS	1		Web Page for STN Seminar Schedule - N. America
NEWS	2	JAN 02	STN pricing information for 2008 now available
NEWS	3	JAN 16	CAS patent coverage enhanced to include exemplified prophetic substances
NEWS	4	JAN 28	USPATFULL, USPAT2, and USPATOLD enhanced with new custom IPC display formats
NEWS	5	JAN 28	MARPAT searching enhanced
NEWS	6	JAN 28	USGENE now provides USPTO sequence data within 3 days of publication
NEWS	7	JAN 28	TOXCENTER enhanced with reloaded MEDLINE segment
NEWS	8	JAN 28	MEDLINE and LMEDLINE reloaded with enhancements
NEWS	9	FEB 08	STN Express, Version 8.3, now available
NEWS	10	FEB 20	PCI now available as a replacement to DPCI
NEWS	11	FEB 25	IFIREF reloaded with enhancements
NEWS	12	FEB 25	IMSPRODUCT reloaded with enhancements
NEWS	13	FEB 29	WPINDEX/WPIDS/WPIX enhanced with ECLA and current U.S. National Patent Classification
NEWS	14	MAR 31	IFICDB, IFIPAT, and IFIUIDB enhanced with new custom IPC display formats
NEWS	15	MAR 31	CAS REGISTRY enhanced with additional experimental spectra
NEWS	16	MAR 31	CA/CAPLUS and CASREACT patent number format for U.S. applications updated
NEWS	17	MAR 31	LPCI now available as a replacement to LDPCI
NEWS	18	MAR 31	EMBASE, EMBAL, and LEMBASE reloaded with enhancements
NEWS	19	APR 04	STN AnaVist, Version 1, to be discontinued
NEWS	20	APR 15	WPIDS, WPINDEX, and WPIX enhanced with new predefined hit display formats
NEWS EXPRESS	FEBRUARY 08 CURRENT WINDOWS VERSION IS V8.3, AND CURRENT DISCOVER FILE IS DATED 20 FEBRUARY 2008		
NEWS HOURS	STN Operating Hours Plus Help Desk Availability		
NEWS LOGIN	Welcome Banner and News Items		
NEWS IPC8	For general information regarding STN implementation of IPC 8		

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* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 19:51:14 ON 21 APR 2008

=> file reg

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.21

0.21

FILE 'REGISTRY' ENTERED AT 19:51:23 ON 21 APR 2008

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STRUCTURE FILE UPDATES: 20 APR 2008 HIGHEST RN 1015905-22-2

DICTIONARY FILE UPDATES: 20 APR 2008 HIGHEST RN 1015905-22-2

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<http://www.cas.org/support/stngen/stndoc/properties.html>

=>

Uploading C:\Documents and Settings\sshterengarts\My Documents\Sam's Documents\STN STRUCTURES\10519287.str

chain nodes :

1 2 3 4

chain bonds :

1-3 1-2 3-4

exact bonds :

1-3 1-2 3-4

Match level :

1:CLASS 2:CLASS 3:CLASS 4:CLASS

L1 STRUCTURE UPLOADED

=> d l1

L1 HAS NO ANSWERS

L1 STR

H—CF₂—SO₂—Cl

Structure attributes must be viewed using STN Express query preparation.

=> s l1 exact full

FULL SEARCH INITIATED 19:51:39 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 25 TO ITERATE

100.0% PROCESSED 25 ITERATIONS

1 ANSWERS

SEARCH TIME: 00.00.01

L2 1 SEA EXA FUL L1

=> s l1 fam full

FULL SEARCH INITIATED 19:51:54 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 70 TO ITERATE

100.0% PROCESSED 70 ITERATIONS

1 ANSWERS

SEARCH TIME: 00.00.01

L3 1 SEA FAM FUL L1

=> file caplus

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

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130.17

FILE 'CAPLUS' ENTERED AT 19:52:02 ON 21 APR 2008

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FILE COVERS 1907 - 21 Apr 2008 VOL 148 ISS 17

FILE LAST UPDATED: 20 Apr 2008 (20080420/ED)

Effective October 17, 2005, revised CAS Information Use Policies apply. They are available for your review at:

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=> s l2

L4 18 L2

=> s l3

L5 18 L3

=> l4 and l5

L4 IS NOT A RECOGNIZED COMMAND

The previous command name entered was not recognized by the system.

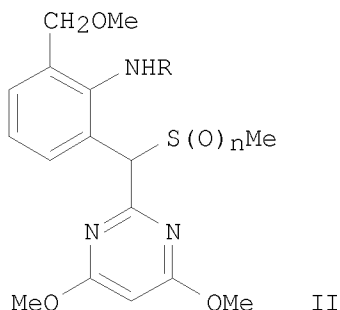
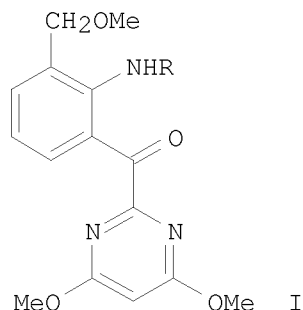
For a list of commands available to you in the current file, enter

"HELP COMMANDS" at an arrow prompt (=>).

=> s 14 and 15
 L6 18 L4 AND L5
 => d 16 1-18 ibib abs hitstr

L6 ANSWER 1 OF 18 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 2006:410208 CAPLUS
 DOCUMENT NUMBER: 144:450722
 TITLE: Oxidation process for the preparation of phenyl
 2-pyrimidinyl ketones and their corresponding sulfide
 of sulfoxides
 INVENTOR(S): Araki, Koichi; Sato, Yoshitaka; Ford, Mark James
 PATENT ASSIGNEE(S): Bayer Cropscience AG, Germany
 SOURCE: PCT Int. Appl., 19 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006045612	A1	20060504	WO 2005-EP11531	20051028
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
JP 2006124347	A	20060518	JP 2004-317222	20041029
EP 1807401	A1	20070718	EP 2005-806519	20051028
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR				
CN 101048387	A	20071003	CN 2005-80037325	20051028
MX 200705171	A	20070622	MX 2007-5171	20070427
KR 2007070200	A	20070703	KR 2007-709735	20070427
US 20080004444	A1	20080103	US 2007-666496	20070427
PRIORITY APPLN. INFO.:			JP 2004-317222	A 20041029
			WO 2005-EP11531	W 20051028
OTHER SOURCE(S):			CASREACT 144:450722; MARPAT 144:450722	
GI				

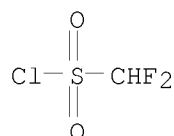


AB 2-Pyrimidinyl ketones [I; R = H, F2HCSO2; e.g., 2-[(4,6-dimethoxypyrimidin-2-yl)carbonyl]-6-methoxymethylaniline] or their salts are prepared in high yield and selectivity by the oxidation of the corresponding sulfides or sulfoxides [II; n = 0, 1; e.g., 2-[(4,6-dimethoxypyrimidin-2-yl)methylthiomethyl]-6-methoxymethylaniline] or their salts in the presence of hydrogen peroxide and acetic acid.

IT 1512-30-7, Difluoromethanesulfonyl chloride
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (preparation of aminoaryl pyrimidyl ketones and [(aminoaryl)pyrimidyl] Me sulfoxides via oxidation of [(aminoaryl)pyrimidyl] Me sulfides)

RN 1512-30-7 CAPLUS

CN Methanesulfonyl chloride, difluoro- (6CI, 8CI, 9CI) (CA INDEX NAME)



REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 2 OF 18 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2005:365461 CAPLUS

DOCUMENT NUMBER: 142:411075

TITLE: Environmentally friendly preparation of benzyl difluoromethyl sulfides

INVENTOR(S): Fujimoto, Shuichi; Hamada, Yusuke

PATENT ASSIGNEE(S): Ihara Chemical Industry Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 12 pp.
 CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

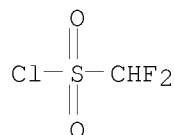
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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JP 2005112810	A	20050428	JP 2003-350882	20031009
PRIORITY APPLN. INFO.:			JP 2003-350882	20031009
OTHER SOURCE(S):	MARPAT 142:411075			

AB The sulfides RnC6H5-nCH2SCHF2 (R = H, alkyl, halo, etc.; n = 1-5), useful as intermediates for difluoromethylsulfonylanilides as herbicides, are prepared by treatment of (RnC6H5-nCH2S)mX1 (R = same as above; X1 = alkali metal, alkaline earth metal; m = 1 when X1 = alkali metal; m = 2 when X1 = alkaline earth metal) with CHF2X2 (X2 = halo) in water-organic solvent two-phase systems. Thus, benzylthioronium hydrochloride was treated with KOH in the presence of Bu4N+Br- in C6H5Cl/H2O and treated with CHF2Cl to give 89.7% benzyl difluoromethyl sulfide.

IT 1512-30-7P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of benzyl difluoromethyl sulfides as intermediates for difluoromethylsulfonylanilide herbicides by sulfuration of halodifluoromethanes with benzylmercaptan metal salts in water-organic solvent two-phase systems)

RN 1512-30-7 CAPLUS

CN Methanesulfonyl chloride, difluoro- (6CI, 8CI, 9CI) (CA INDEX NAME)



L6 ANSWER 3 OF 18 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 2004:20652 CAPLUS
 DOCUMENT NUMBER: 140:93680
 TITLE: Method for synthesis of hydrogenofluoromethylenesulfonyl radical derivatives
 INVENTOR(S): Saint-Jalmes, Laurent
 PATENT ASSIGNEE(S): Rhodia Chimie, Fr.
 SOURCE: PCT Int. Appl., 15 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: French
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004002951	A2	20040108	WO 2003-FR1940	20030624
WO 2004002951	A3	20040415		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
FR 2841551	A1	20040102	FR 2002-8090	20020628
FR 2841551	B1	20060113		
CA 2491207	A1	20040108	CA 2003-2491207	20030624
AU 2003260623	A1	20040119	AU 2003-260623	20030624
EP 1517888	A2	20050330	EP 2003-761633	20030624
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
CN 1671657	A	20050921	CN 2003-817932	20030624
JP 2005531626	T	20051020	JP 2004-516858	20030624
US 20060178536	A1	20060810	US 2005-519287	20051125
PRIORITY APPLN. INFO.:			FR 2002-8090	A 20020628
			WO 2003-FR1940	W 20030624

OTHER SOURCE(S): CASREACT 140:93680

AB A process for the synthesis of hydrogenofluoromethylenesulfonyl radical derivs. is disclosed. The process comprises: i. condensing a thiolate (that is a monoalkyl sulfide salt) with a compound having a sp³ hybridized carbon bearing a hydrogen, a fluorine, a heavy halogen selected among chlorine, bromine and iodine and an electron-attracting group (σ_p is not less than 0.2) and ii. oxidation of the resulting sulfide. For instance, benzylmercaptan is alkylated with R 22 (Na, 1,2,4-trichlorobenzene, several conditions evaluated) and the resulting sulfide oxidized (Cl₂) to give difluoromethanesulfonyl chloride. The invention is applicable to the synthesis of various compds. having a sulfinyl or sulfonyl group.

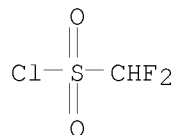
IT 1512-30-7P, Difluoromethanesulfonyl chloride
 RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP

(Preparation)

(method for synthesis of hydrogenofluoromethylenesulfonyl radical
derivs.)

RN 1512-30-7 CAPLUS

CN Methanesulfonyl chloride, difluoro- (6CI, 8CI, 9CI) (CA INDEX NAME)



L6 ANSWER 4 OF 18 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2001:137607 CAPLUS

DOCUMENT NUMBER: 134:252430

TITLE: Predicting the reactivity of fluorinated compounds
with copper using semi-empirical calculations

AUTHOR(S): Heaton, C. A.; Miller, A. K.; Powell, R. L.

CORPORATE SOURCE: School of Pharmacy and Chemistry, Liverpool John
Moore's University, Liverpool, L3 3AF, UK

SOURCE: Journal of Fluorine Chemistry (2001), 107(1), 1-3
CODEN: JFLCAR; ISSN: 0022-1139

PUBLISHER: Elsevier Science S.A.

DOCUMENT TYPE: Journal

LANGUAGE: English

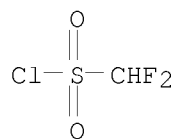
AB Both electron affinities and LUMO energies have been useful predictors of
the reactivity of a series of fluorinated halides with copper. They were
calculated using the semi-empirical PM3 method.

IT 1512-30-7, Difluoromethanesulfonyl chloride

RL: PRP (Properties); RCT (Reactant); RACT (Reactant or reagent)
(predicting reactivity of fluorinated compds. with copper using
semi-empirical calcns.)

RN 1512-30-7 CAPLUS

CN Methanesulfonyl chloride, difluoro- (6CI, 8CI, 9CI) (CA INDEX NAME)



REFERENCE COUNT: 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 5 OF 18 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2000:644993 CAPLUS

DOCUMENT NUMBER: 133:309596

TITLE: Gas phase structures and conformations of
trifluoromethanesulfonyl fluoride, CF₃SO₂F,
difluoromethanesulfonyl fluoride, CHF₂SO₂F, and
difluoromethanesulfonyl chloride, CHF₂SO₂Cl

AUTHOR(S): Haist, R.; Trautner, F.; Mohtasham, J.; Winter, R.;
Gard, G. L.; Oberhammer, H.

CORPORATE SOURCE: Institut für Physikalische und Theoretische Chemie,
Universität Tübingen, Tübingen, 72076, Germany

SOURCE: Journal of Molecular Structure (2000), 550-551, 59-65
CODEN: JMOSB4; ISSN: 0022-2860

PUBLISHER: Elsevier Science B.V.
DOCUMENT TYPE: Journal
LANGUAGE: English

AB The gas phase structures of CF₃SO₂F, CHF₂SO₂F, and CHF₂SO₂Cl have been studied by gas electron diffraction (GED) and quantum chemical calcns. (HF/6-31G* and B3LYP/6-31G*). The two compds. CHF₂SO₂X (X=F or Cl) exist in the gas phase as mixts. of trans and gauche conformers (C-H bond trans or gauche to S-X bond). In the case of CHF₂SO₂F the gauche conformer prevails (84(17)%), whereas for the chlorine derivative the trans form is the major component (69(9)%). These compns. are reasonably well reproduced by both computational methods. The S-C bond lengths (1.835(5) Å in CF₃SO₂F, 1.822(5) Å in CHF₂SO₂F and 1.846(5) Å in CHF₂SO₂Cl) are compared to those in other sulfonyl derivs.

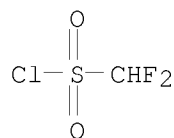
IT 1512-30-7, Difluoromethanesulfonyl chloride

RL: PRP (Properties)

(gas phase structures and conformations of fluoromethanesulfonyl fluorides and chlorides)

RN 1512-30-7 CAPLUS

CN Methanesulfonyl chloride, difluoro- (6CI, 8CI, 9CI) (CA INDEX NAME)



REFERENCE COUNT: 16 THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 6 OF 18 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2000:98529 CAPLUS

DOCUMENT NUMBER: 132:151829

TITLE: Di- or tri-fluoromethanesulfonyl anilide derivatives, process for the preparation of them and herbicides containing them as the active ingredient

INVENTOR(S): Yoshimura, Takumi; Nakatani, Masao; Tamaru, Masatoshi; Danjo, Takeshi; Ono, Yukimasa; Yanagisawa, Katsutada

PATENT ASSIGNEE(S): Ihara Chemical Industry Co., Ltd., Japan; Kumiai Chemical Industry Co., Ltd.

SOURCE: PCT Int. Appl., 43 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

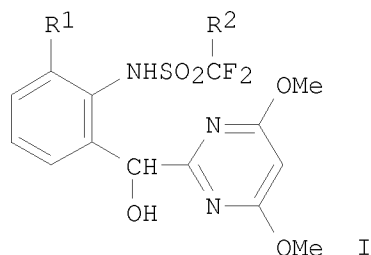
LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000006553	A1	20000210	WO 1999-JP4043	19990728
W:	AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW			
RW:	GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
JP 2000044546	A	20000215	JP 1998-214635	19980729
JP 3632947	B2	20050330		
JP 2000063360	A	20000229	JP 1998-235438	19980821

JP 3697075	B2	20050921		
AU 9949289	A1	20000221	AU 1999-49289	19990728
AU 750129	B2	20020711		
EP 1101760	A1	20010523	EP 1999-933128	19990728
EP 1101760	B1	20031015		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
BR 9912494	A	20020409	BR 1999-12494	19990728
EP 1361218	A1	20031112	EP 2003-5151	19990728
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI, CY				
AT 252088	T	20031115	AT 1999-933128	19990728
RU 2225861	C2	20040320	RU 2001-105533	19990728
ES 2209466	T3	20040616	ES 1999-933128	19990728
TW 221471	B	20041001	TW 1999-88112867	19990729
US 6458748	B1	20021001	US 2001-744209	20010122
PRIORITY APPLN. INFO.:			JP 1998-214635	A 19980729
			JP 1998-235438	A 19980821
			EP 1999-933128	A3 19990728
			WO 1999-JP4043	W 19990728
OTHER SOURCE(S):			MARPAT 132:151829	
GI				

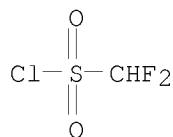


AB Described are N-(di- or tri-fluoromethanesulfonyl)-2-[(4,6-dimethoxypyrimidin-2-yl)hydroxymethyl]aniline compds. (I; wherein R1 is hydrogen, alkyl or alkoxyalkyl; and R2 is hydrogen when R1 is hydrogen or alkyl, while R2 is hydrogen or fluoro when R1 is alkoxyalkyl) useful as herbicides which are effective in controlling a wide variety of lowland weeds including difficultly controllable ones and safe for mammals; process for the preparation of them; herbicides containing them as the active ingredient; and novel compds. to be used in the process as the raw material. Thus, 3.6 g difluoromethanesulfonyl chloride was added dropwise to a solution of 4.0 g 2-[(4,6-dimethoxypyrimidin-2-yl)hydroxymethyl]-6-(methoxymethyl)aniline and 2.0 g pyridine in 30 mL CH₂Cl₂ and stirred at room temperature for 7 days to give 36% I (R1 = methoxymethyl, R2 = H). The latter compound at 1.6 g/10 are preemergence $\geq 90\%$ Echinochloa crus-galli, Monochoria vaginalis, and Scirpus juncoides in flooded paddy soil and did not damage rice seedlings.

IT 1512-30-7, Difluoromethanesulfonyl chloride
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (preparation of N-(di- or tri-fluoromethanesulfonyl)aniline derivs. as herbicides)

RN 1512-30-7 CAPLUS

CN Methanesulfonyl chloride, difluoro- (6CI, 8CI, 9CI) (CA INDEX NAME)



REFERENCE COUNT: 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 7 OF 18 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1999:147774 CAPLUS

DOCUMENT NUMBER: 130:223289

TITLE: Preparation of sulfonanilide moiety containing pyrimidine derivatives as herbicides

INVENTOR(S): Yoshimura, Isao; Miyazaki, Masahiro; Suzuki, Senji; Nakaya, Masao; Tamaru, Masatoshi; Ono, Yoshimasa; Ida, Tomohisa; Yanagisawa, Katsutada; Sadohara, Hideo

PATENT ASSIGNEE(S): Kumiai Chemical Industry Co., Ltd., Japan; Ihara Chemical Industry Co., Ltd.

SOURCE: Jpn. Kokai Tokkyo Koho, 57 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

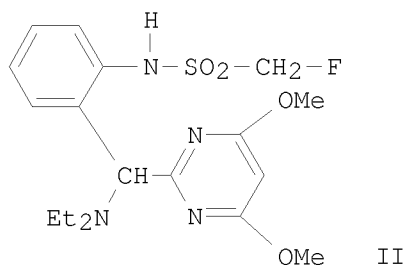
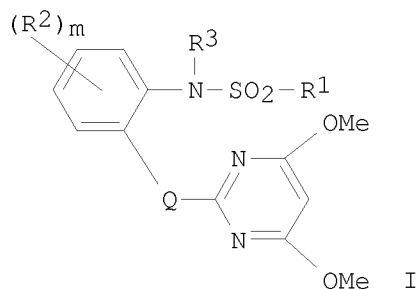
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 11060562	A	19990302	JP 1998-173980	19980605
PRIORITY APPLN. INFO.:			JP 1997-169454	A 19970611

OTHER SOURCE(S): MARPAT 130:223289

GI



AB The title compds. I [R1 = (un)substituted alkyl, etc.; R2 = H, halo, etc.; R3 = H, alkyl, etc.; Q = CH(NR4R5), etc.; m = 1 -4; R4, R5 = H, alkyl, etc.] are prepared The title compound II (at 100 g/10 area) gave ≥ 90% control of Scirpus juncoides.

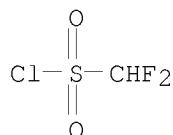
IT 1512-30-7

RL: RCT (Reactant); RACT (Reactant or reagent)

(preparation of sulfonanilide moiety containing pyrimidine derivs. as herbicides)

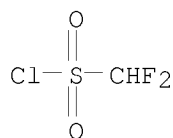
RN 1512-30-7 CAPLUS

CN Methanesulfonyl chloride, difluoro- (6CI, 8CI, 9CI) (CA INDEX NAME)



L6 ANSWER 8 OF 18 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 1999:130426 CAPLUS
 DOCUMENT NUMBER: 130:184069
 TITLE: Preparation of bis(fluoroalkylenesulfonyl) imides and (fluoroalkylsulfonyl) (fluorosulfonyl) imides
 INVENTOR(S): Howells, Richard D.; Lamanna, William M.; Fanta, Alan D.; Waddell, Jennifer
 PATENT ASSIGNEE(S): Minnesota Mining and Manufacturing Company, USA
 SOURCE: U.S., 10 pp., Cont.-in-part of U.S. Ser. No. 398,859. CODEN: USXXAM
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 3
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5874616	A	19990223	US 1995-577425	19951222
US 5514493	A	19960507	US 1995-398859	19950306
CA 2238619	A1	19970703	CA 1996-2238619	19961209
CA 2238619	C	20060808		
WO 9723448	A1	19970703	WO 1996-US19532	19961209
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, UZ, VN				
RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
AU 9711301	A	19970717	AU 1997-11301	19961209
EP 904265	A1	19990331	EP 1996-942154	19961209
EP 904265	B1	20010418		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
ES 2155632	T3	20010516	ES 1996-942154	19961209
PRIORITY APPLN. INFO.:				
			US 1995-398859	A2 19950306
			US 1995-577425	A 19951222
			WO 1996-US19532	W 19961209
AB A method includes reacting a fluoroalkylsulfonamide with a fluoroalkylsulfonyl halide or a fluorosulfonyl halide in the presence of a nonnucleophilic base. A reaction is $\text{ZRfSO}_2\text{NH}_2 + \text{ZR}'\text{fSO}_2\text{X} + 2\text{B} \rightarrow (\text{ZRfSO}_2)(\text{ZR}'\text{fSO}_2)\text{N}-\text{BH}^+ + \text{BHX}$, where each Z is F or a polymerizable organic functional group, Rf and R'f are fluoroalkylene groups optionally containing catenary O or N, X is a halogen, and B is a nonnucleophilic base. Thus, 35.00 g $\text{CF}_3\text{SO}_2\text{NH}_2$, 98 mL Et_3N , and 74.55 g $\text{C}_4\text{F}_9\text{SO}_2\text{F}$ were heated to prepare $\text{HN}(\text{SO}_2\text{CF}_3)(\text{SO}_2\text{C}_4\text{F}_9)$ and treated with Li_2CO_3 to give Li trifluoromethanesulfonyl perfluorobutanesulfonyl imide.				
IT 1512-30-7, Difluoromethanesulfonyl chloride				
RL: RCT (Reactant); RACT (Reactant or reagent) (preparation of bis(fluoroalkylenesulfonyl) imides and fluoroalkylsulfonyl fluorosulfonyl imides)				
RN 1512-30-7 CAPLUS				
CN Methanesulfonyl chloride, difluoro- (6CI, 8CI, 9CI) (CA INDEX NAME)				



REFERENCE COUNT: 40 THERE ARE 40 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 9 OF 18 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 1997:503575 CAPLUS
 DOCUMENT NUMBER: 127:136181
 TITLE: Preparation of bis(fluoroalkylenesulfonyl)imides and (fluoroalkylsulfonyl) (fluorosulfonyl)imides
 INVENTOR(S): Howells, Richard D.; Lamanna, William M.; Fanta, Alan D.; Waddell, Jennifer E.
 PATENT ASSIGNEE(S): Minnesota Mining and Manufacturing Company, USA
 SOURCE: PCT Int. Appl., 35 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 3
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9723448	A1	19970703	WO 1996-US19532	19961209
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, UZ, VN				
RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
US 5874616	A	19990223	US 1995-577425	19951222
CA 2238619	A1	19970703	CA 1996-2238619	19961209
CA 2238619	C	20060808		
AU 9711301	A	19970717	AU 1997-11301	19961209
EP 904265	A1	19990331	EP 1996-942154	19961209
EP 904265	B1	20010418		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
PRIORITY APPLN. INFO.:			US 1995-577425	A 19951222
			US 1995-398859	A2 19950306
			WO 1996-US19532	W 19961209

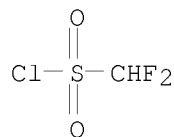
AB Fluoroalkylsulfonyl imides are prepared by reacting a fluoroalkylisulfonamide with a fluoroalkylsulfonyl halide or a fluorosulfonyl halide in the presence of a non-nucleophilic base, e.g., $\text{ZrF}_2\text{SO}_2\text{NH}_2 + \text{Zr}'\text{fSO}_2\text{X} + 2\text{B} \rightarrow (\text{Zr}'\text{fSO}_2)(\text{Zr}'\text{fSO}_2)\text{N}-\text{BH}^+ + \text{BHX}$ (Z = F or a polymerizable organic functional group; Rf, R'f = fluoroalkylene groups optionally containing catenary oxygen or nitrogen; X = halogen; B = non-nucleophilic base). Unsym. imides and polymeric imides can be prepared $\text{H}_2\text{NSO}_2(\text{CF}_2)_4\text{SO}_2\text{NH}_2$ 1.995, $\text{FSO}_2(\text{CF}_2)_3\text{SO}_2\text{F}$ 1.751, and triethylamine 3.363 g in 5 mL MeCN were stirred at 65° overnight, then at 75° for 8 h and worked up to obtain 2.2 g polymer with bimodal mol. weight distribution at Mn 19670 and 4240.

IT 1512-30-7
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (preparation of bis(fluoroalkylenesulfonyl)imides and (fluoroalkylsulfonyl)

(fluorosulfonyl)imides)

RN 1512-30-7 CAPLUS

CN Methanesulfonyl chloride, difluoro- (6CI, 8CI, 9CI) (CA INDEX NAME)



L6 ANSWER 10 OF 18 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1988:94570 CAPLUS

DOCUMENT NUMBER: 108:94570

ORIGINAL REFERENCE NO.: 108:15559a,15562a

TITLE: Preparation of [(sulfonyloxy)aryl]triazolinones and -thiones as herbicides

INVENTOR(S): Maravetz, Lester L.

PATENT ASSIGNEE(S): FMC Corp. , USA

SOURCE: U.S., 20 pp. Cont.-in-part of U.S. Ser. No. 650,755, abandoned.

CODEN: USXXAM

DOCUMENT TYPE: Patent

LANGUAGE: English

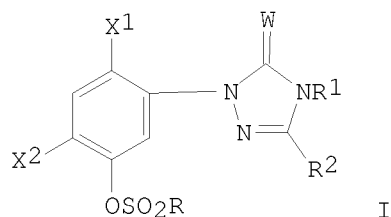
FAMILY ACC. NUM. COUNT: 6

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4705557	A	19871110	US 1986-829541	19860210
US 4919708	A	19900424	US 1989-372207	19890626
PRIORITY APPLN. INFO.:			US 1983-533013	A2 19830915
			US 1984-650755	A2 19840913
			US 1983-541596	B2 19831013
			US 1984-655960	B2 19840928
			US 1984-666933	B2 19841031
			US 1985-697619	B2 19850204
			US 1986-825520	B1 19860203
			US 1987-102303	B1 19870925

OTHER SOURCE(S): CASREACT 108:94570

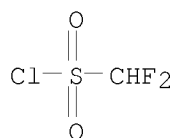
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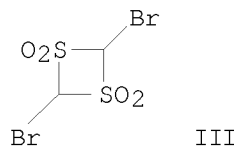
AB The title compds. (I; X1, X2 = halo, haloalkyl, alkyl; R = alkyl, haloalkyl, cyanoalkyl, etc.; R1 = R, alkenyl, alkynyl, alkoxyalkyl, alkylsulfonylalkyl, etc.; R2 = R, arylalkyl, alkoxyalkynyl, dialkylsulfoxide, etc.; W = O, S) were prepared as herbicides. 1-(2,4-Dichloro-5-hydroxyphenyl)-3-methyl-4-(2-propenyl)-Δ²-1,2,4-triazolin-5-one and Et₃N were dissolved in THF and chloromethanesulfonyl

chloride was added dropwise to give 1-(2,4-dichloro-5-chloromethylsulfonyloxyphenyl)-3-methyl-4-(2-propenyl)-Δ²-1,2,4-triazolin-5-one. The latter at 8.0 kg/ha preemergent gave a 100% kill of velvetleaf, morningglory, green foxtail, and johnson grass while having either a slight effect or no effect at all on cotton, soybeans, field corn, rice, and wheat.

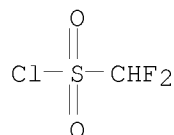
IT 1512-30-7, Difluoromethanesulfonyl chloride
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (sulfonylation by, of (hydroxyphenyl)triazolinone derivative, in preparation of herbicide)
 RN 1512-30-7 CAPLUS
 CN Methanesulfonyl chloride, difluoro- (6CI, 8CI, 9CI) (CA INDEX NAME)



L6 ANSWER 11 OF 18 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 1985:522952 CAPLUS
 DOCUMENT NUMBER: 103:122952
 ORIGINAL REFERENCE NO.: 103:19657a,19660a
 TITLE: Reactions of halogenated methanesulfonyl chlorides with trimethylamine and an inverse sulfene-amine adduct.
 AUTHOR(S): Rheude, Udo; Sundermeyer, Wolfgang
 CORPORATE SOURCE: Anorg.-Chem. Inst., Univ. Heidelberg, Heidelberg, D-6900/1, Fed. Rep. Ger.
 SOURCE: Chemische Berichte (1985), 118(6), 2208-19
 CODEN: CHBEAM; ISSN: 0009-2940
 DOCUMENT TYPE: Journal
 LANGUAGE: German
 OTHER SOURCE(S): CASREACT 103:122952
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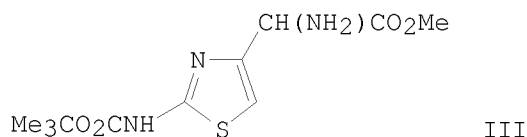
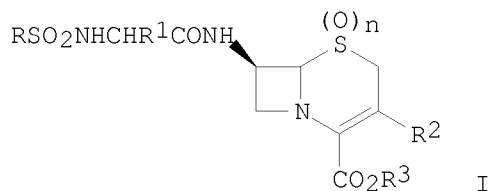


AB BrCH₂Cl reacted with KF to give FCH₂Cl which reacted with, e.g., Ph₂CHSH to give Ph₂CHSCH₂SH. This was oxidized with Cl-H₂O to give FCH₂SO₂Cl (I). I formed the adduct Me₃N+CHFSO₂- with Me₃N. BrCH₂SO₂Cl gave mainly BrCH₂SO₂C-RSO₂N+Me₃ (II, R = H), along with some II (R = Br). Several other reactions were studied; e.g., the dithietane III was prepared
 IT 1512-30-7
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (reaction of, with trimethylamine)
 RN 1512-30-7 CAPLUS
 CN Methanesulfonyl chloride, difluoro- (6CI, 8CI, 9CI) (CA INDEX NAME)



L6 ANSWER 12 OF 18 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 1984:209513 CAPLUS
 DOCUMENT NUMBER: 100:209513
 ORIGINAL REFERENCE NO.: 100:31807a,31810a
 TITLE: Cephalosporin derivatives and their pharmaceutical compositions
 INVENTOR(S): Kocsis, Karoly; Wiederkehr, Rene; Wehrli, Hansuli
 PATENT ASSIGNEE(S): Ciba-Geigy A.-G. , Switz.
 SOURCE: Eur. Pat. Appl., 287 pp.
 CODEN: EPXXDW
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 92830	A2	19831102	EP 1983-104037	19830425
EP 92830	A3	19841227		
R: AT, BE, CH, DE, FR, IT, LI, LU, NL, SE				
FI 8301381	A	19831028	FI 1983-1381	19830422
GB 2118942	A	19831109	GB 1983-11222	19830425
GB 2118942	B	19850724		
ES 521824	A1	19850501	ES 1983-521824	19830425
DK 8301853	A	19831028	DK 1983-1853	19830426
NO 8301470	A	19831028	NO 1983-1470	19830426
AU 8313951	A	19831103	AU 1983-13951	19830426
HU 28778	A2	19831228	HU 1983-1436	19830426
HU 188459	B	19860428		
DD 207720	A5	19840314	DD 1983-250223	19830426
ZA 8302918	A	19840829	ZA 1983-2918	19830426
JP 58194891	A	19831112	JP 1983-73135	19830427
ES 535195	A1	19850801	ES 1984-535195	19840816
PRIORITY APPLN. INFO.:			CH 1982-2568	A 19820427
			CH 1982-6504	A 19821109
OTHER SOURCE(S):	MARPAT 100:209513			
GI				



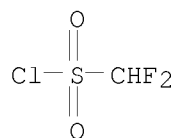
AB Cephalosporins I [R = C-bonded organic; R1 = heterocyclic; R2 = H, (un)substituted alkyl, alkoxy, halogen; R3 = H, protective group; n = 0-2] were prepared. Thus (2S)-I (R = Me, R1 = 2-amino-4-thiazolyl, R2 = H, R3 = Na, II) was prepared from thiazolylacetate III and benzhydryl 7-amino-3-cephem-4-carboxylate in 4 steps. II had a min. inhibitory concentration against Escherichia coli 205 of 0.02 µg/mL.

IT 1512-30-7

RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with aminoethanesulfonylaminoacetate)

RN 1512-30-7 CAPLUS

CN Methanesulfonyl chloride, difluoro- (6CI, 8CI, 9CI) (CA INDEX NAME)



L6 ANSWER 13 OF 18 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1979:203430 CAPLUS

DOCUMENT NUMBER: 90:203430

ORIGINAL REFERENCE NO.: 90:32349a,32352a

TITLE: Fluoroalkanesulfonyl chlorides

AUTHOR(S): Moore, George G. I.

CORPORATE SOURCE: Riker Lab., Inc., St. Paul, MN, USA

SOURCE: Journal of Organic Chemistry (1979), 44(10), 1708-11

CODEN: JOCEAH; ISSN: 0022-3263

DOCUMENT TYPE: Journal

LANGUAGE: English

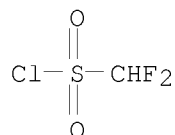
AB FCHRSO2Cl (R = H, F) were prepared in 49% overall yields by treating FCHRC1 with PhCH2SH-NaOH in DMF, followed by oxidative chlorination in cold H2O. Despite identical conditions and yields, the reactions of PhCH2SNa with FCH2Cl and F2CHCl proceed through SN2 and carbene paths, resp., as indicated by alkylation in NaOD. The oxidative chlorination of F2CHSCH2Ph occurs at least 50% via the sulfoxide. In situ generation of PhCH2SNa gave a 39% overall yield of F2CHSO2Cl.

IT 1512-30-7P

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 1512-30-7 CAPLUS

CN Methanesulfonyl chloride, difluoro- (6CI, 8CI, 9CI) (CA INDEX NAME)



L6 ANSWER 14 OF 18 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1977:139625 CAPLUS

DOCUMENT NUMBER: 86:139625

ORIGINAL REFERENCE NO.: 86:21913a,21916a

TITLE: (Fluoromethanesulfonamido)benzophenones

INVENTOR(S): Robertson, Jerry E.; Harrington, Joseph K.; Kvam, Donald C.

PATENT ASSIGNEE(S): Riker Laboratories, Inc., USA

SOURCE: U. S. Reissue, 9 pp. Reissue of U.S. 3,576,866.

CODEN: UUXXA2

DOCUMENT TYPE: Patent

LANGUAGE: English

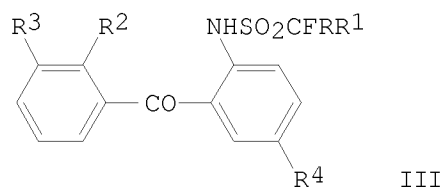
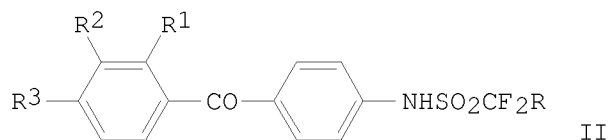
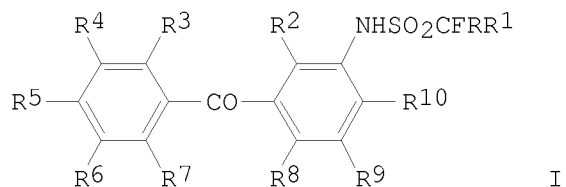
FAMILY ACC. NUM. COUNT: 9

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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US 29032	E	19761109	US 1975-632572	19751117
GB 1251504	A	19711027	GB 1968-52348	19681105
CH 547265	A	19740329	CH 1968-17589	19681126
BR 6906155	D0	19730313	BR 1969-206155	19690205
US 3576866	A	19710427	US 1969-832824	19690612
US 3758688	A	19730911	US 1972-256377	19720524
PRIORITY APPLN. INFO.:			US 1966-588338	A2 19661021
			US 1968-719741	A2 19680408
			US 1969-832824	A5 19690612
			GB 1967-47927	A 19671020
			US 1970-45413	A2 19700611

OTHER SOURCE(S): MARPAT 86:139625

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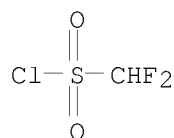
AB 3-Aminobenzophenones were treated with RCR1FSO₂X (R = H, F; R₁ = H, F, CHF₂, CHF₂CF₃, CF₂CF₂CF₃; X = Cl, F) and (CF₃SO₂)₂O, and tertiary amines, to give sixty, resp., 3-(fluoromethanesulfonamido)benzophenones I (R₂ = H, Cl, Me, OMe; R₃ = H, Me, Cl, OMe, CF₃; R₄ = H, Me, Cl, F, CF₃; R₅ = H, Cl-4 alkyl, Cl, OMe, OBU, F, OCF₃; R₆ = H, OMe, Me; R₇ = H, Me; R₈ = H, Cl, OMe, Br; R₉ = H, Cl, Me, OMe; R₁₀ = H, Cl, Me, OMe). Similarly prepared were five 4-sulfonamido isomers II (R = H, F; R₁ = H, Cl; R₂ = H, Cl; R₃ = H, Cl) and seven 2-isomers III (R = H, F; R₁ = F, H; R₂ = H, Cl; R₃ = H, Me; R₄ = H, Cl). I, II, and III are useful as antiinflammatory, analgesic, and antipyretic agents (no data).

IT 1512-30-7

RL: RCT (Reactant); RACT (Reactant or reagent)
(amidation of, by aminobenzophenones)

RN 1512-30-7 CAPLUS

CN Methanesulfonyl chloride, difluoro- (6CI, 8CI, 9CI) (CA INDEX NAME)



L6 ANSWER 15 OF 18 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1976:462813 CAPLUS

DOCUMENT NUMBER: 85:62813

ORIGINAL REFERENCE NO.: 85:10105a,10108a

TITLE: Acylamides of β-cyanoethenesulfonyl-substituted aminoarenes

INVENTOR(S): Richter, Sven U. K. A.; Tsolis, Alexandros K.; Tsolis, Eleftheria A.

PATENT ASSIGNEE(S): Sanitized, Inc., USA

SOURCE: U.S., 24 pp.
CODEN: USXXAM

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 3943154	A	19760309	US 1973-337637	19730302
CA 1051018	A1	19790320	CA 1974-193883	19740301

PRIORITY APPLN. INFO.: US 1973-337637 A 19730302

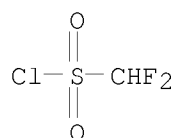
AB R[R1S(O)nNH]C6H3SO2CH:CHR2 (I; R = H, Me, Cl, etc; R1 = Ph, Me, CF3, 2,4,6-Me3C6H2, etc; R2 = CN, CONH2, CO2Et; n = 0, 1, 2), 4-R2P(O)NHC6H4SO2CH:CHR1 (II; R = aziridiny1, EtO, HO, MeN, etc.) and related compds. were prepared by the reaction of an acid halide with an (aminophenylsulfonyl)vinyl compound Thus, 4-H2NC6H4SO2CH:CHCN was added to cooled MeSO2Cl in HCCl3, followed by the addition of pyridine, and the mixture was kept at room temperature for 48 hr to give 4-(MeSO2NH)C6H4SO2CH:CHCN. I

and II are useful as bactericides and fungicides; test data were given.

IT 1512-30-7
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with (aminophenylsulfonyl)acrylonitrile)

RN 1512-30-7 CAPLUS

CN Methanesulfonyl chloride, difluoro- (6CI, 8CI, 9CI) (CA INDEX NAME)



L6 ANSWER 16 OF 18 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1975:16579 CAPLUS

DOCUMENT NUMBER: 82:16579

ORIGINAL REFERENCE NO.: 82:2645a,2648a

TITLE: Haloalkylsulfonamido-substituted tolan and stilbene compounds

INVENTOR(S): Moore, George G. I.; Trancik, Ronald J.

PATENT ASSIGNEE(S): Riker Laboratories, Inc.

SOURCE: U.S., 5 pp.
CODEN: USXXAM

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 3840527	A	19741008	US 1971-172261	19710816

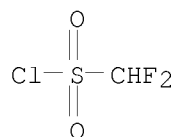
PRIORITY APPLN. INFO.: US 1971-172261 19710816

AB 2,5-R2C6H3ZC6-H4NR1SO2CF3 (I; R = MeO; R1 = H, EtO2C, F2CHSO2, CN; Z = CH:CH, CMe:CH, C.tplbond.C) were prepared by the reaction of 2,5-R2C6H3ZC6H4NH2 with (CF3SO2)2O, followed by reaction with R1Cl. Thus, 3.34 g trans-2-H2NC6H4CH:CHPh reacted with 4.9 g (CF3SO2)2O in 25 ml CH2Cl2 and 2.7 ml Et3N at 0° to give trans-2-(F3CSO2NH)C6H4CH:CHPh, which reacted with ClCO2Et to give trans-2-(PhCH:CH)C6H4N(CO2Et)SO2CF3. I were useful as antiinflammatory agents and herbicides (no data).

IT 1512-30-7
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with [(trifluoromethyl)sulfonyl]amino]stilbene)

RN 1512-30-7 CAPLUS

CN Methanesulfonyl chloride, difluoro- (6CI, 8CI, 9CI) (CA INDEX NAME)



L6 ANSWER 17 OF 18 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1972:419402 CAPLUS

DOCUMENT NUMBER: 77:19402

ORIGINAL REFERENCE NO.: 77:3245a,3248a

TITLE: Fluoroalkylsulfonamidoaryl compounds as plant growth regulators

INVENTOR(S): Moore, George G. I.; Harrington, Joseph K.

PATENT ASSIGNEE(S): Minnesota Mining and Manufacturing Co.

SOURCE: Ger. Offen., 57 pp.

CODEN: GWXXBX

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 4

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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DE 2118190	A	19720309	DE 1971-2118190	19710408
DE 2118190	C2	19821125		
NL 7104420	A	19711015	NL 1971-4420	19710402
NL 174644	B	19840216		
NL 174644	C	19840716		
CH 557804	A	19750115	CH 1971-5144	19710408
CA 1010890	A1	19770524	CA 1971-110036	19710408
BE 765558	A1	19711011	BE 1971-102037	19710409
FR 2097745	A5	19720303	FR 1971-12702	19710409
JP 54011297	B	19790514	JP 1971-23004	19710412
GB 1306564	A	19730214	GB 1971-26681	19710419
JP 56040685	B	19810922	JP 1977-85723	19770719
JP 55015474	B	19800423	JP 1978-45455	19780419
PRIORITY APPLN. INFO.:			US 1970-28148	19700413
			US 1971-118476	19710224

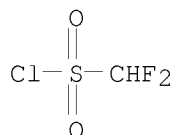
AB Trifluoromethanesulfonylanilides (I) substituted in the 2-, 3-, of 4-position by arylthio, aryloxy, arylsulfonyl, or arylsulfinyl groups, and in other positions by Cl, Me, CF₃, MeO, NO₂, or NH₂ are active against cyprus grass (*Cyperus esculentus* and *C. rotundus*). Phenoxy-substituted I have antiinflammatory properties. 3-PhSC₆H₄NHSO₂CF₃ was prepared by treating 3-PhSC₆H₄NH₂ with CF₃SO₂Cl in the presence of Et₃N. Various methods were used to prepare .apprx.250 other I.

IT 1512-30-7

RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with aniline derivs.)

RN 1512-30-7 CAPLUS

CN Methanesulfonyl chloride, difluoro- (6CI, 8CI, 9CI) (CA INDEX NAME)



L6 ANSWER 18 OF 18 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1961:2452 CAPLUS

DOCUMENT NUMBER: 55:2452

ORIGINAL REFERENCE NO.: 55:445g-i,446a-c

TITLE: Arylamides of halogenated methane- and ethanesulfonic acids

AUTHOR(S): Farrar, W. V.

CORPORATE SOURCE: Imp. Chem. Ind. Ltd., Manchester, UK

SOURCE: Journal of the Chemical Society (1960) 3058-62

CODEN: JCSOA9; ISSN: 0368-1769

DOCUMENT TYPE: Journal

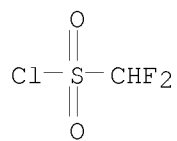
LANGUAGE: Unavailable

AB Reaction of RSO_2Cl with ArNH_2 , either with or without $\text{C}_5\text{H}_5\text{N}$ present, gave ArNHSO_2R . Pure $\text{ClCH}_2\text{SO}_2\text{Cl}$ (I) (198 g.) was best prepared by heating 258 g. $\text{ClCH}_2\text{SO}_3\text{Na}$ with 340 g. PCl_5 2 hrs. at 100° ; I was used for the preparation of the following $\text{ArNHSO}_2\text{CH}_2\text{Cl}$ (Ar, % yield, and m.p. given): $p\text{-ClC}_6\text{H}_4$, 79, 106° , with $p\text{-ClC}_6\text{H}_5\text{N}(\text{SO}_2\text{CH}_2\text{Cl})_2$, 7, 124° , as the sole by-product; $2,4\text{-Cl}_2\text{C}_6\text{H}_3$ -, -, 108° ; $2,4,5\text{-Cl}_3\text{C}_6\text{H}_2$ -, -, 114° . Their rates of alkaline hydrolysis varied. The Na salt from 25 g. $2,4,5\text{-Cl}_3\text{C}_6\text{H}_2\text{SO}_2\text{NH}_2$ and 15 g. I was refluxed 16 hrs. in 200 ml. C_6H_6 to form 15 g. Na salt (II), m. $280\text{-}2^\circ$, of $2,3,5\text{-Cl}_3\text{C}_6\text{H}_2\text{SO}_2\text{NHSO}_2\text{CH}_2\text{Cl}$ (III). With HCl , II gave III, m. $155\text{-}6^\circ$, stable to hot aqueous alkali. $\text{PhNHSO}_2\text{CH}_2\text{Br}$, m. 77° , and $\text{PhNHSO}_2\text{CH}_2\text{I}$, m. 70° , prepared from $\text{BrCH}_2\text{SO}_2\text{Cl}$ and $\text{ICH}_2\text{SO}_2\text{Cl}$, resp., were decomposed by aqueous NaOH . $\text{CHCl}_2\text{SO}_2\text{Cl}$ (IV) was prepared by heating PCl_5 with $\text{CHCl}_2\text{SO}_3\text{Na}$, which (25 g.) was obtained by heating 120 g. CHCl_3 , 250 g. $\text{Na}_2\text{SO}_3 \cdot 7\text{H}_2\text{O}$, and 800 g. H_2O 5 hrs. at 125° and 100 lb./sq. in. IV gave 65% $\text{PhNHSO}_2\text{CHCl}_2$, m. 78° , and 65% $p\text{-ClC}_6\text{H}_4\text{NHSO}_2\text{CHCl}_2$ (V), m. 103° , with 2% $p\text{-ClC}_6\text{H}_4\text{N}(\text{SO}_2\text{CHCl}_2)_2$, m. 230° (decomposition), and a little ($p\text{-ClC}_6\text{H}_4$) 2NCH:NH.HCl . V was rapidly decomposed at 100° by $\text{N Na}_2\text{CO}_3$ to mainly $p\text{-ClC}_6\text{H}_4\text{NC}$. IV gave 8% $2,4,5\text{-Cl}_3\text{C}_6\text{H}_2\text{NHSO}_2\text{CHCl}_2$, m. 168° , and much tar. Oxidation of 3 g. $p\text{-ClC}_6\text{H}_4\text{NHSCCl}_3$, m. 49° , with H_2O_2 gave 1.95 g. unstable sulfenilide, m. $157\text{-}8^\circ$ (decomposition), while oxidation by KMnO_4 gave 1.2 g. sulfonilide, m. 147° , which decomposed in 10% aqueous Na_2CO_3 at 100° to $p\text{-ClC}_6\text{H}_4\text{NH}_2$, ($p\text{-ClC}_6\text{H}_4\text{NH}$) 2CO , and ($p\text{-ClC}_6\text{H}_4\text{NH}$) $2\text{C:NC}_6\text{H}_4\text{Cl}$ - p . $\text{CHF}_2\text{SO}_3\text{Na}$ (VI) (34.5 g.) was prepared from 86 g. CHCl_2F , 250 g. $\text{Na}_2\text{SO}_3 \cdot 7\text{H}_2\text{O}$, and 500 g. H_2O (20 hrs. at 120° and 230 lb./sq. in.); PCl_5 converted it to $\text{CHF}_2\text{SO}_2\text{Cl}$, not isolated but used to prepare $\text{PhNHSO}_2\text{CHF}_2$, m. 59° , $p\text{-ClC}_6\text{H}_4\text{NHSO}_2\text{CHF}_2$, m. 92° , and $2,4\text{-Cl}_2\text{C}_6\text{H}_3\text{NHSO}_2\text{CHF}_2$, m. 94° . VI and CHCl_2F gave a mixture of $\text{CH}_2\text{FSO}_3\text{Na}$ and $\text{CHClFSO}_3\text{Na}$, converted into a mixture of $\text{PhNHSO}_2\text{CH}_2\text{F}$, m. 86.5° , and $\text{PhNHSO}_2\text{CHClF}$, m. 63° , separated by crystallization. Chlorination of a mixt of the p -chloroanilides, obtained similarly, gave $p\text{-ClC}_6\text{H}_4\text{NHSO}_2\text{CHClF}$, m. 78° , and $2,4\text{-Cl}_2\text{C}_6\text{H}_3\text{NHSO}_2\text{CH}_2\text{F}$. All the F-containing arylamides were stable to alkali. $\text{MeCHClSO}_2\text{Cl}$ gave $\text{PhNHSO}_2\text{CHClMe}$, m. 70° . $\text{ClCH}_2\text{CH}_2\text{SO}_2\text{Cl}$ gave $p\text{-ClC}_6\text{H}_4\text{NHSO}_2\text{CH:CH}_2$, m. 50° , $p\text{-ClC}_6\text{H}_4\text{NHSO}_2\text{CH}_2\text{HC}_2\text{Cl}$, m. 78° , and $p\text{-ClC}_6\text{H}_4\text{NHSO}_2\text{CH}_2\text{CH}_2\text{C}_6\text{H}_4\text{Cl}$ - p , m. 86° .

IT 1512-30-7P, Methanesulfonyl chloride, difluoro-
RL: PREP (Preparation)
(preparation of)

RN 1512-30-7 CAPLUS

CN Methanesulfonyl chloride, difluoro- (6CI, 8CI, 9CI) (CA INDEX NAME)



=> FIL STNGUIDE
COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
99.06	229.23

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE	TOTAL
ENTRY	SESSION
-14.40	-14.40

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